# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
To: GLAXOSMITHKLINE Corporate Intellectual Property Attn. Baker, Suzanne Jane CN925.1 980 Great West Road Brentford, Middlesex TW8 9GS UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTENATIONAL SEABERING AUGUSTATION  1 C AUG 2005  DAME SIMMING ON UPDATED ON: 10/8/05  COMPANY SEABERING ON UPDATED ON: 10/8/05				
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No.	international filing date				
PCT/GE2005/001071	(day/monitulyear) 22/03/2005				
Applicant	22/ 43/ 244				
GLAXO GROUP LIMITED					
1.  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.  Filling of streaments and statement under Article 19:  The applicant is entitled, it he so wishes, to amend the claims of the international Application (see Rule 46):  When? The time limit for filling such amendments is normally 2 monitus from the date of transmittal of the International Search Raport, however, for more details, see the notes on the accompanying sheet.  Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes  1211 Geneva 20, Switzerland, Fascrinie No: (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2.  The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith.  3.  With regard to the protest against payment of (an) additional level) under Rule 40.2, the applicant is notified that:  the orotest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to the ward the texts of both the protest and the decision thereon to the decision is made.  4.  Petitimeters  Shortly after the expiration of 18 months from the protest; the applicant will be published by the international application, or of the priority claim, must reach the international publication, a notice of writindrawal of the international application, or of the priority claim, must reach the international publication.  The international president wishes to excell or postpone publication, a notice of writindrawal of the international proteins application, or of the priority claim, must be self-or in the priority date.  Within 19 months, from the priority claim, must seed the international proteins to a decision, a motice of writindrawal of t					
Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentiaan 2  NL-2280 HV Rijswijk  Tet. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Stefan Brell				

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basis instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of disorepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the International search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to the americaneous of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international plutication. Furthermore, it should be emphasized that provisional protection is evaluable in some States only.

#### What parts of the international application may be amended?

Under Article 19, onty the claims may be amended.

Ouring the international phase, the claims may also be invented (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time first suppress later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the international Bureau after the organization of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 48.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the obtims which, on account of an amondment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no nemesbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents regist/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be automitted with a letter.

The letter will not be published with the international application and the amended claims, it should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The latter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, incloses, in connection with each claim appearing in the international application (it twing understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is carealled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim up filed.

# The following examples flustrate the manner in which amendments must be explained in the accommend letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- (Where various kinds of amendments are made):
   \*Claims 1-10 unchanged; claims 11 to 13, 18 and 18 cancelled; claims 14, 15 and 16 replaced by emended claim 14; claims 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.\*

#### "Statement under erticie 19(1)" (Ruje 46,4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which carnot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

If must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or it translated into English.

It should not be confused with and does not replace the letter indicating the differences between the cigims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a treading, preferably by using the words "Statement under Article 19(1)."

It may not contain say disparaging comments on the international asserts report or the relevance of citations contained in that report. Reference to citations, relevant to a given citating, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international profiminary examination has already been filed

If, at the time of filing any amendments under Article. 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the international Bureau, also file a copy of such amendments with the international Preliminary Examining Authority (see Pade 62.2(a), first centence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicants attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

# PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 19 and Bules 43 and 44).

Applicant's or agent's file relerence	FOR FURTHER	see Form PCT/ISA/220 well as, where applicable, Item 5 below.
KCKC/ PB60786 International application No.	ACTION as International filling date (day/month/year)	
пернеския аручаски тур,	» поличество нину сым (окулпонилувы)	(Earliest) Priority Date (day/month/year)
PCT/GB2005/001071	22/03/2005	26/03/2004
Applicant		
GLAXO GROUP LIMITED	<u>.                                    </u>	
This international Search Report has be according to Article 18. A copy is being	sen prepared by this international Searching transmitted to the international Bureau.	Authority and is transmitted to the applicant
This injernational Search Report consis	the of a total of sheets,	
· · · · · · · · · · · · · · · · · · ·	by a copy of each prior art document cited in	this report.
Basis of the report     With report to the lenguese B	ne international search was carried out on the	back of the international analisation in the
	inless otherwise indicated under this item.	vaces of one international approximation in the
		ansiation of the international application furnished to
this Authority (i		
b. With regard to any nuc	leotide and/or amino acid sequence disclo	sed in the international application, see Box No. 1.
2. X Cortain claims were to	ound unsearchable (See Box II).	
- 1-1	(	
3. Unity of invention is it	oking (see Box III).	
4. With regard to the Nile,		
	submitted by the applicant,	
	ilished by this Authority to read as follows:	
	RIVATIVES USEFUL AS ANTI-VI	RAL AGENTS
5. With regard to the abstract,		,
	submitted by the applicant.	
the text has been estab may, within one month	ilished, according to Rule 38.2(b), by this Aut from the date of mailing of this international s	hority as it appears in Box No. IV. The applicant earch report, submit comments to this Authority.
- · · · · · · · · · · · · · · · · · · ·		
6. With regard to the drawings,		
a. the figure of the drawings to be	published with the abstract is Figure No	
as suggested b	, ,,	
=	this Authority, because the applicant falled to	<del></del> -
	this Authority, because this figure better char-	acterizes the invention.
to ne of the figures is to	be published with the abstract.	

#### INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/001071 A CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D231/38 C07D403/04 C07D405/12 C07D409/04 C070403/12 A61K31/415 CO7D403/10 A61P31/12 According to International Patent Classification (IPC) or to both national electrication and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 CO7D A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fletts searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passaces. Relevant to claim No. A WO 03/037895 A (GLAXO GROUP LIMITED; 1-13 BRAVI, GIANPAOLO; GUIDETTI, ROSSELLA; HAIGH, DAVI) 8 May 2003 (2003-05-08) claims 1,10,11 A WO 03/037893 A (GLAXO GROUP LIMITED: 1-13BRAVI, GIANPAOLO; HOWES, PETER, DAVID; LOYEGROVE,) 8 May 2003 (2003-05-08) claims 1,4,5 P,A WO 2004/076415 A (GLAXO GROUP LIMITED; 1-13 BRAVI, GIANPAOLO; BURTON, GEORGE; HOWES, PETER DA) 10 September 2004 (2004-09-10) claims 10,11 WO 2004/096210 A (GLAXO GROUP LIMITED; P,A 1-13BRAVI, GIANPAOLO; GRIMES, RICHARD, MARTIN; GUIDET) 11 November 2004 (2004-11-11) claims 1,2 Further documents are listed in the continuation of box C. Patent family members are listed in sonex. \* Special categories of cited documents : "Y" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the "A" document defining the general state of the lart which is not considered to be of particular relovance. hventon "E" earlier document but published on or after the international "X" document of particular-relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Mino date "L" document which may throw doubts on priority claim(a) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannom or particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person sidled in the art. "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 21 July 2005 10/08/2005

Authorized officer

Bakboord, J

Name and mailing address of the ISA

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### **INTERNATIONAL SEARCH REPORT**

International application No. PCT/GB2005/001071

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This inte	mational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X	Claims Nos.: 3-5 because they relate to subject matter not required to be searched by this Authority, namely:	
Ì	Although claims 3-5 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds.	
2. 🗍	Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:	
з. 🔲	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)	
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.	
2. 🗌	As all searchable claims could be searched without affort justifying an additional fee, this Authority did not invite payment of any additional fee.	
з. 🗀	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the ciaims; it is covered by claims Nos.:	
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

——SEP. 26. 2006— 2:11PM———GW GLOBAL R&D IS------NO. 1491——P. 7/7———

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2005/001071

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03037895	.A·	08-05-2003	WO	03037895 A1	08-05-2003
			ΕP	1440069 A1	28-07-2004
			J۴	2005515172 T	26-05-2005
			US	2005043390 A1	24-02-2005
WO 03037893 A	Α	08-05-2003	WO	03037893 A1	08-05-2003
			EΡ	1440068 A1	28-07-2004
			JP	2005511572 T	28-04-2005
			US	2005009873 Al	13-01-2005
WO 2004076415	A	10-09-2004	WO	2004076415 A1	10-09-2004
WO 2004096210	Α	11-11-2004	WO	2004096210 A1	11-11-2004